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- 3 1. A pharmaceutical composition comprising an effective amount of (R,R'),(R,S')-
- amphetaminil sulfate or another pharmaceutically-acceptable salt thereof,
- substantially free of (S,R'),(S,S')-amphetaminil, and at least one
- 6 pharmaceutically-acceptable carrier, diluent, excipient or additive.

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A controlled release formulation comprising the pharmaceutical composition of claim 1.

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An immediate release formulation comprising the pharmaceutical composition of claim 1.

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An oral dosage form comprising the pharmaceutical composition of claim 1

consisting of about 0.1 to about 100 mg of (R,R'),(R,S')-amphetaminil sulfate or

another pharmaceutically-acceptable salt thereof.

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The dosage form of claim 4 consisting of about 1 to about 50 mg of (R,R'),(R,S')amphetaminil sulfate or another pharmaceutically-acceptable salt thereof.

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- 21 6. The pharmaceutical composition of claim 1 wherein said (R,R'),(R,S')-
- amphetaminil sulfate or another pharmaceutically-acceptable salt thereof is
- 23 greater than about 90% of the weight of total amphetaminil.

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2	7.	The pharmaceutical composition of claim 6 wherein said (R,R'),(R,S')-
3		amphetaminil sulfate or another pharmaceutically-acceptable salt thereof is
4		greater than about 95% of the weight of total amphetaminil.
5		
6	8.	The pharmaceutical composition of claim 7 wherein said (R,R'),(R,S')-
7		amphetaminil sulfate or another pharmaceutically-acceptable salt thereof is
8		greater than about 99% of the weight of total amphetaminil.
9		
10	9.	A method for prophylaxis or treatment of a human condition or disease requiring
11		or benefitting from a central nervous stimulant comprising administéring to said
12		human an effective amount of a pharmaceutical composition comprising
13		(R,R'),(R,S')-amphetaminil sulfate or another pharmaceutically-acceptable salt
14		thereof, substantially free of (S,R'),(S,S')-amphetaminil.
15	10.	The method of claim 9 wherein said administering is parenteral, transmucosal or
17		transdermal.
8		
9	11.	The method of claim 10 wherein said transmucosal is orally, nasally, or rectally.
20		
21	12.	The method of claim 10 wherein said parenteral is intra-arterial, intravenous,
22		intramuscular, intradermal, subcutaneous, intraperitoneal, intraventricular, or
23		intracranial.

1	13.	The method of claim 9 wherein the amount administered is about 0.1 to about 100
2		mg daily.
3		•
4	14.	The method of claim 13 wherein said amount administered is about 1 to about 50
5		mg daily.
6		
7	15.	The method of claim 14 wherein the amount is administered from one to about
8		four unit doses per day.
9		
10	16.	The method of claim 15 wherein the amount administered is one or two unit doses
11		per day.
12		
13	17.	The method of claim 5 wherein the amount of (R,R'),(R,S')-amphetaminil sulfate
14	4	or another pharmaceutically-acceptable salt thereof is greater than about 90% of
15		the weight of the total amphetaminil.
16		
17	18.	The method of claim 17 wherein the amount of (R,R'),(R,S')-amphetaminil
18		sulfate or another pharmaceutically-acceptable salt thereof is greater than about
19		95% of the weight of the total amphetaminil.
20		
21	19.	The method of claim 18 wherein the amount of (R,R'),(R,S')-amphetaminil
22		sulfate or another pharmaceutically-acceptable salt thereof is greater than about
23		99% of the weight of the total amphetaminil.

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2	20.	The method of claim 9 wherein said amount of (R,R'),(R,S')-amphetaminil
3		sulfate or another pharmaceutically-acceptable salt thereof, substantially free of
4		(S,R'),(S,S')-amphetaminil is administered together with a pharmaceutically-
5		acceptable carrier, diluent, excipient or additive.
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The method of claim 9 wherein said condition or disease is narcolepsy, attention
deficit hyperactivity disorder (ADHD), depression, Parkinson's disease, cognitive
dysfunction, or Alzheimer's disease, renal dysfunction, asthma, obesity, nicotine
withdrawal, hypotension, apathy, potentiating activity of a conventional
antidepressant, potentiating an opiate for pain control, or reduced energy
associated with chemotherapy or radiation therapy.

The method of claim 9 wherein said condition or disease is amenable to treatment by preferential activation of mesolimbic-mediated behavior.